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1901/02

UNIVERSITY
OF THE
UNIVERSITY OF OHIO

University Bulletin

Series 5 Number 11

OHIO STATE UNIVERSITY
CATALOGUE
OF THE
COLLEGE
OF
ARTS, PHILOSOPHY and SCIENCE.

1901-1902



COLUMBUS
PUBLISHED BY THE UNIVERSITY

Entered at the Postoffice, Columbus, Ohio, as second-class matter

OHIO STATE UNIVERSITY

CATALOGUE

OF THE

COLLEGE

OF

Arts, Philosophy and Science

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COLUMBUS
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1900-1901

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Faculty and Courses of Study

THOMAS J. GODFREY OSCAR T. CORSON JOHN T. MACK

DAYS AND DATES

1901

Summer Session of Lake Laboratory at Sandusky, July 1 to August 23
Entrance Examinations.....Monday and Tuesday, Sept 16, 17
First Term begins—Registration Day... 8 a. m. Tuesday, September 17
Lectures and Class-work begin8 a. m. Wednesday, September 18
President's Annual Address..... 11 a. m. Friday, September 20
Thanksgiving Recess..... Thursday and Friday, Nov. 28, 29
Latest Date for Announcing Subjects } of Theses..... } Saturday, December 14
First Term ends4 p. m. Wednesday, December 18
Christmas Vacation

1902

Second Term begins—Registration Day..8 a. m. Thursday, January 2
University Day.....Saturday, February 22
Second Term ends.....4 p. m. Friday, April 4
Spring Recess
Third Term begins—Registration Day...8 a. m. Wednesday, April 9
Field Day, Athletic Association.....Saturday, May 17
Senior Vacation beginsSaturday, May 24
Competitive Drill, Cadet Battalion..... Saturday, May 24
Memorial Day.....Friday, May 30
Latest Date for Presenting Thesis.....Saturday, June 7
Latest Date for Filing Bound Copy..... } of Thesis..... } Friday, June 13
Baccalaureate SermonSunday, June 15
Entrance ExaminationsMonday and Tuesday, June 16, 17
Class Day.....Monday, June 16
Alumni DayTuesday, June 17
Commencement.....Wednesday, June 18
Summer Vacation
Session of Lake Laboratory at Sandusky..June 30 to August 22
Entrance ExaminationsMonday and Tuesday, Sept. 22, 23
First Term begins—Registration Day....8 a. m. Tuesday, September 23
Lectures and Class-work begin.....8 a. m. Wednesday, September 24
President's Annual Address..... 11 a. m. Friday, September 26

OHIO STATE UNIVERSITY

HISTORY

The land grant made by the United States under an act approved by President Lincoln, July 2, 1862, provided that there should be granted to each State an amount of public land equal to thirty thousand acres for each Senator and Representative to which the State was entitled by the apportionment of the census of 1860. The proceeds under this act were to constitute a perpetual fund, the capital of which was to remain forever undiminished and the interest of the same was to be inviolably applied by each state that should take and claim the benefits of the act to the endowment, support and maintenance of at least one "college where the leading objects shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanical arts, in such a manner as the legislatures of the states may respectively prescribe, in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

Governor Tod, in November, 1862, brought the subject before the State Board of Agriculture, and later to the attention of the legislature. In January, 1864, Hon. Columbus Delano introduced a bill accepting the grant. This became a law February 9, 1864, and pledged the faith of the state to the performance of all the conditions and provisions contained therein. In 1866 an act, introduced by Hon. J. T. Brooks, was passed which provided for the establishment of the Ohio Agricultural and Mechanical College; but the provisions were not carried into effect; and a second act, introduced by Hon. R. P. Cannon, was passed in 1870, entitled "An act to establish and maintain an Agricultural and Mechanical College in Ohio." Under the provisions of this act the institution was located in Columbus; and the board proceeded to the organization of the college and the election of a faculty of instruction: and the institution was opened for the reception of students on the seventeenth day of September, 1873.

In 1878 the legislature passed "An act to reorganize and change the name of the Ohio Agricultural and Mechanical College and to repeal certain acts therein mentioned." The act provided that the institution should be thereafter designated as "The Ohio State University." Up to this time but one appropriation had been made by the state for the support of the institution. With the reorganization came the larger and broader view of the

state's relation to public education ; and since that time the Ohio State University has enjoyed with other public educational institutions a more generous support by the state.

The governing body of the institution is a board of seven trustees, appointed by the governor of the state and confirmed by the senate, for terms of seven years as provided in the law organizing the University. The original endowment has been supplemented and the objects of the University promoted by a permanent annual grant from the United States, under an act of 1890 ; by special appropriations of the General Assembly ; and in 1891, by a permanent annual grant from the state, which grant was doubled by the legislature of 1896. In accordance with the spirit of the law under which it is organized, the University aims to furnish ample facilities for education in the liberal and industrial arts, the sciences and the languages, and for thorough technical and professional study of agriculture, engineering in its various departments, veterinary medicine, pharmacy and law. Through the aid which has been received from the United States and from the state it is enabled to offer its privileges, with a slight charge for incidental expenses, to all persons of either sex who are qualified for admission.

LOCATION OF THE UNIVERSITY

The University is situated within the corporate limits of the city of Columbus, two miles north of the Union Station and about three miles from the state Capitol. The University grounds consist of three hundred and forty-five acres, bounded east and west by High Street and the Olentangy River, respectively. The western portion, about 235 acres, is devoted to agricultural and horticultural purposes, and is under the management of the College of Agriculture and Domestic Science. The eastern portion is occupied by the principal University buildings, campus, athletic and drill grounds, a park-like meadow, and a few acres of primitive forest.

The grounds are laid out with care, and ornamented with trees, shrubs and flower beds ; and are so managed as to illustrate the instruction in botany, horticulture, forestry, landscape gardening and floriculture.

The University may be reached by either the North High Street or Neil Avenue electric cars. Those wishing to go to the principal buildings of the University, to the residences on the grounds, or to the athletic field, should take a High Street car going north. Those wishing to visit the Emerson McMillin Observatory, the Veterinary Hospital, Townshend Hall, Horticultural Hall or the dormitories, will find the Neil Avenue cars more convenient.

The University has thirteen buildings devoted to instruction; a boiler house, power house, two dormitories, six residences and several farm buildings. These structures represent an investment for construction of about eight hundred thousand dollars. The equipment and apparatus amount to about one hundred and seventy thousand dollars. The land now occupied as a site, with the farm, is valued at one million five hundred thousand dollars.

EXPENSES

The incidental fee of eighteen dollars a year is charged to all students (except those holding scholarships), and is payable one-third at the opening of each term. The laboratory fees are charged to such students (except those holding scholarships), as pursue courses in sciences having fees attached. These are detailed in the University catalogue.

The cost of living, which is the chief item of expense, is as reasonable in Columbus as in most college towns. Furnished rooms may be secured at prices ranging from one dollar a week upward, and the cost of table board is from two dollars and twenty-five cents upward. The uniform required of all members of the battalion costs about fourteen dollars. In the matter of expense much is dependent upon the personal taste and habits of the student. There is nothing about the State University requiring a large expenditure of money; economy and careful living are the rule. The University distinctly encourages these things, and will use every means to discourage a lavish expenditure of money as inconsistent with the best interests of the student or of college life. Two hundred and fifty dollars may be regarded as sufficient money to provide for reasonable expenses for a year at the University.

For information as to text books, etc., apply to F. R. West, University Supply Store, Columbus.

AIDS TO MORAL AND RELIGIOUS CULTURE

A weekly convocation is held at 10 o'clock on Wednesdays in the University Chapel. During this hour all other University exercises are suspended; and the entire Faculty and student body are expected to attend this exercise. It consists of a brief devotional service, followed by an address by the President, some member of the Faculty, or an invited guest.

One of the most commendable organizations in the University is a branch of the International Young Men's Christian Association, organized in 1883. This association is directly affiliated with the work for young men directed by the college department of the State Y. M. C. A. work. Services are held weekly, and voluntary classes for Bible study are successfully organized. The local association has a secretary who devotes his entire time to work among the young men. The management has rented a house at 71 Eleventh Avenue as a headquarters for the Association. It is hoped that in the near future a permanent home for the Association may be provided.

An equally commendable organization is the Young Women's Christian Association, affiliated with the State organization. Religious meetings are held regularly at noon on Tuesdays. Occasionally meetings for social purposes are held as provided for by the organization. Both of these organizations are worthy of public consideration.

New students are invited to write to the address below for a hand book of information concerning the University or for information concerning rooms, boarding or employment. Address, J. P. Davies, 71 Eleventh Avenue, Columbus.

LITERARY AND OTHER SOCIETIES

The Alcyone Literary Society, open to young men, was founded in 1874; the Horton Literary Society, open to young men, was founded in 1875; the Athenaean Literary Society, open to young men, was founded in the winter of 1896-'97. The Browning Literary Society, founded in 1883, and the Philomathean Literary Society, founded in 1894, are open to young women. These societies have commodious and well furnished apartments in University Hall. They meet weekly, and their work, offering to the student a very desirable training in composition, public speaking, and parliamentary order, is a valuable adjunct to collegiate education.

The Townshend Literary Society was established in 1883 as a technical society under the name of the Kirtland Agricultural Society. In 1894, the name Townshend was substituted. In 1898, the Society changed its constitution so as to admit any student of the University and thus became a literary rather than a technical society. It meets weekly in its commodious and well arranged society room in Townshend Hall.

There are numerous other organizations, membership in nearly all of which is open to all students. Their various objects are sufficiently indicated by the following titles: the Biological Club, the Chemical Association, the Political Science Club, the Engineering Society, the Sketch Club, the English Club, the Dramatic Club, the Glee Club, the Mandolin and Guitar Club, the Banjo Club, the Orchestra, the Male Quartet and the Cadet Band.

MILITARY SCIENCE AND TACTICS

Under the law of Congress establishing the University, it is required that instruction shall be given in military science and tactics. In accordance with this provision an officer of the regular army has been detailed to take charge of the Department of Military Science and Tactics; and the Trustees have directed that all male students, except those in the Law College, and such others as may be specially excused for physical disability or for having reached the age limit of twenty-five years, shall render two years of cadet service as a condition of graduation. A uniform has been prescribed with which each member is required to provide himself; and fifty minutes a day are devoted to drill, except on those days when instruction in tactics and art of war is given.

CADET SERVICE AND GYMNASIUM

From the opening of the year until the Thanksgiving recess cadet service is required four times a week; from Thanksgiving until the Spring recess cadet service is required twice each week and gymnasium practice twice; from the Spring recess until the first of June cadet service is required four times each week.

The gymnasium is free to all students; those desiring a locker will be charged a fee of one dollar a term.

PHYSICAL EDUCATION

The Gymnasium is a large modern building, completed in 1898. The basement is used for lockers, dressing rooms and baths. The east end is used by the young women, the west end by the young men. Each end has separate shower and plunge baths.

The exercising floor, 80x150 feet, is thoroughly equipped with the best apparatus in duplicate. The running track is fourteen laps to the mile, with graded elevations at the curve to meet the requirements of the different rates of speed. The track is laid with felt an inch in thickness, three and a half feet wide and covered with rubber coated canvas.

The work is compulsory for the first and second year students. The course consists of theoretical and practical work in the gymnasium, and includes calisthenics, light and heavy gymnastics, physiology of exercise, physical examinations and measurements. It is intended to give the student such a training in the methods of Physical Education that he may have a comprehensive knowledge of the subject.

A thorough physical examination of each student is made at the opening of the year, and the measurements are outlined on charts, so as to show the parts below the normal development, for which special exercises suited to the health and physical condition of each individual will be suggested. These charts are constructed from the accumulated data of several thousand measurements of college students. Experience demonstrates that the body, as well as the mind, is susceptible of right and wrong development. Every part of the body can be strengthened and increased; and the relation of one part to another can also be changed so as to correct imperfections.

Class leaders who act as floor aids are selected from among those that show a proficiency in the work. These students are given a certificate of their appointment as Aids, and the letter A in scarlet, which they are entitled to wear on their gymnasium suits.

It is the aim of the department to secure health, vigor and such harmonious development of the body as will fit it to resist disease and prepare it for efficient service, both now and later in life.

THE UNIVERSITY

The Ohio State University is divided into six Colleges, as follows :

The College of Agriculture and Domestic Science.

The College of Arts, Philosophy and Science.

The College of Engineering.

The College of Law.

The College of Pharmacy.

The College of Veterinary Medicine.

The College of Agriculture and Domestic Science consists of those departments represented in the courses leading to the degrees of Bachelor of Science in Agriculture, Bachelor of Science in Horticulture and Forestry, and Bachelor of Science in Domestic Science; in the Short Course in Agriculture, in the Short Course in Domestic Science, and in the Course in Dairying.

The College of Arts, Philosophy and Science consists of those departments represented in the courses leading to the degrees Bachelor of Arts, Bachelor of Philosophy, and Bachelor of Science.

The College of Engineering consists of those departments represented in the courses leading to the degrees of Civil Engineer, Engineer of Mines, Engineer of Mines in Ceramics, Mechanical Engineer, Mechanical Engineer in Electrical Engineering, Bachelor of Science in Industrial Arts, and Bachelor of Science in Chemistry or in Metallurgy; in the Course in Architecture, in the Short Course in Clay-working and Ceramics, and in the Short Course in Mining.

The College of Law consists of those departments represented in the course leading to the degree of Bachelor of Laws.

The College of Pharmacy consists of those departments represented in the courses leading to the degree of Bachelor of Science in Pharmacy, and in the Short Course in Pharmacy.

The College of Veterinary Medicine consists of those departments represented in the course leading to the degree of Doctor of Veterinary Medicine, and to a certificate of Veterinary Surgeon.

Each College is under the direction of its own Faculty, which has power to act in all matters pertaining to the work of students in that College.

UNIVERSITY CATALOGUE

The general annual Catalogue of the University will appear in August, 1901. All persons desiring more detailed information in regard to this College (as to the full list of students, description of work in the various departments, etc.) than it has been deemed necessary to publish in this Bulletin, are referred to the University Catalogue, copies of which may be obtained on application to the Executive office, University Hall.

THE COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

This important College has kept pace with the steady and rapid growth of the University. It has always recognized and endeavored to meet the need and demand of the youth of the state for a "good college education." The usual instruction in linguistics, literature, history, mathematics, philosophy and the sciences is offered to all its students; who have, in addition, the advantage of sharing the exceptional facilities afforded by the University for laboratory work. The University library of 35,000 volumes, reinforced by the various department libraries, is an excellent working collection, several thousand dollars being expended each year in the purchase of books.

That these and the other privileges of the College have been appreciated by those who seek an education is shown by the increase in attendance from year to year.

ENROLLMENT

The enrollment of this College for the year 1900-1901 is as follows:

Graduate Students	38
Fourth Year Students	69
Third Year Students	56
Second Year Students	91
First Year Students	136
Special Students	86
Total.....	476
In the other Colleges	971
Total University Enrollment.....	1447

DEGREES CONFERRED IN 1900

At the Commencement in June, 1900, the University conferred degrees on 138 candidates. Of these 69 were in the College of Arts, Philosophy and Science; the list being as follows:

ANVANCED DEGREES

MASTER OF ARTS

Lucy Allen, B.A., Columbus; William Edward Bohn, B.A., (German Wallace College), Olmsted Falls; Paul Revere Good, B.A., Westerville; Anna Brewster Hirst, B.A., (Antioch College) Yellow Springs; Wilbur E. Mann, B. Ph., Columbus; John Bernard Parker, B.A., Danville; Zella Vina Robinson, B. Ph., Columbus; Herbert Oswald Williams, B.A., Columbus.

MASTER OF SCIENCE

Washington J. Machwart, B.S., (Muskingum College) Mt. Eaton; Raymond Carroll Osborn, B.Sc., Fargo, N. Dakota.

FIRST DEGREES

BACHELOR OF ARTS

Eliza Doherty Barcus, Columbus; Homer Zurnehly Bostwick, Columbus; J. Loring Courtright, Circleville; John Hervey Eagleson, Columbus; Joseph Pentecost Eagleson, Columbus; Arthur Byron Harward-Columbus; George Melville Karshner, Columbus; William Watts Parmenter, Mt. Vernon; Mary Washington Rice, Columbus; Charles Boyd Sayre, Columbus; George William Stinson, Columbus; Fred Lant Travis, Pana Ill.; John Francis Travis, Green Camp; Earle Downs West, Columbus.

BACHELOR OF PHILOSOPHY

(LATIN COURSE)

Ida May Fisher, Columbus; Anna Faye Howard, Columbus; Richard Thomas Jones, Columbus; Grace Lenore Pitts, Columbus; Margaret Glaze Pulling, Columbus; Mae B. Schaff, Columbus; Lawrence David Thomas, Lancaster; Harry Porter Weld, Marysville.

(MODERN LANGUAGE COURSE)

Edna Alice Andress, Birmingham; Frank Arthur Bohn, Olmsted Falls; Charles Fuller Dowd, Toledo; Hedwig Eloise Gamper, Columbus; Victor Clarence Moon, Columbus; Clara Maud Williams, Columbus; Mary Grace Young, Mt. Vernon.

(ENGLISH COURSE)

Royal Albert Abbott, Columbus; Florence Louise Bell, Columbus; James Henry Burgess, Big Horn, Wyoming; Alice Marie Connor, Columbus; Ellen Josephine Connor, Columbus; Dille Augusta Dill, Columbus; Bertha Webb Eisenbise, Columbus; Ross Garfield Fox, Columbus; Charles Welton Gayman, Canal Winchester; Hattie DeLong Hoffman, Columbus; Allen Brown Jaynes, Columbus; Gordon Donald Kinder, Ottawa; David Klein, Columbus; Caroline Estelle Knight, Columbus; Charles Howard Lisle, Pataskala; Gretchen Pauline Miller, Columbus; Raymond McCallum,

Dayton; Talmadge Archer Rickey, Columbus; Carl Fletcher Roebuck, Dalton; Dudley Scott, Columbus; Charles Tod Singleton, Columbus; Albertine Charlleen Smith, Columbus; Virginia Roletta Smith, Columbus.

BACHELOR OF SCIENCE

Harvey Clinton Dollison, Columbus; Wilbur Latimer Dubois, Cincinnati; Fred James Jeffrey, Columbus; Edgar Howard Moore, Columbus; Walter Leffingwell Redrow, Williamsburg; Raymond Jesse Seymour, Columbus; Abner Andrews Osborn, Columbus.

SUMMARY

ADVANCED DEGREES

Master of Arts.....	8
Master of Science.....	2

10

FIRST DEGREES

Bachelor of Arts	14
Bachelor of Philosophy	
Latin Course.....	8
Modern Language Course	7
English Course	23
Bachelor of Science	7
	<hr/>
Total	69

COLLEGE OF ARTS, PHILOSOPHY AND SCIENCE

FACULTY AND INSTRUCTORS

REV. WILLIAM OXLEY THOMPSON, D. D.....	University Grounds President of the University.
ALLEN CAMPBELL BARROWS, D. D.....	85 Tenth Avenue Dean, and Professor of English Literature.
WILLIAM HENRY SCOTT, LL. D.....	131 Fifteenth Avenue Professor of Philosophy.
SIDNEY AUGUSTUS NORTON, LL. D.....	363 East Town Street Emeritus Professor of Chemistry.
SAMUEL CARROLL DERBY, M. A.....	93 Fifteenth Avenue Professor of the Latin Language and Literature.
JOSIAH RENICK SMITH, M. A.....	950 Madison Avenue Professor of the Greek Language and Literature.
BENJAMIN FRANKLIN THOMAS, Ph. D.....	University Grounds Professor of Physics, and State Sealer of Weights and Measures.
GEORGE WELLS KNIGHT, Ph. D.....	University Grounds Professor of American History and Political Science.
ROSSER DANIEL BOHANNAN, B. Sc., C. E., E. M.....	10th and Indianola Avenues Professor of Mathematics.
ERNST AUGUST EGGERS.....	110 Eleventh Avenue, University Grounds Professor of Germanic Languages and Literatures.
ALBERT MARTIN BLEILE, M. D.....	218 King Avenue Professor of Anatomy and Physiology.
WILLIAM ASHBROOK KELLERMAN, Ph. D.....	175 Eleventh Avenue Professor of Botany.
BENJAMIN LESTER BOWEN, Ph. D.....	775 East Broad Street Professor of Romance Languages and Literatures.
JOSEPH VILLIERS DENNEY, B. A.....	230 Tenth Avenue Professor of Rhetoric and English Language.

J. P. GORDY, LL. D.....	350 W. Seventh Avenue Professor of Education.
WILLIAM MCPHERSON, D. Sc., Ph. D.....	65 Hamilton Avenue Professor of Chemistry.
HERBERT OSBORN, M. Sc.....	485 King Avenue Professor of Zoology and Entomology.
HENRY CURWEN LORD, B. Sc.....	University Grounds Professor of Astronomy, and Director of the Emerson McMillin Observatory.
CHRISTOPHER P. LINHART, M. D.....	The Vendome Professor of Physical Education, and Director of the Gymnasium.
GEORGE L. CONVERSE, Captain (retired) U. S. A.....	398 Oak Street Professor of Military Science and Tactics.
FREDERICK CONVERSE CLARK, Ph. D.....	1634 Neil Avenue Professor of Economics and Sociology, and Secretary of the Faculty.
OLIVE B. JONES.....	53 Eleventh Avenue University Librarian.
WILBUR HENRY SIEBERT, M. A.....	1382 Highland Street Associate Professor of European History.
GEORGE WASHINGTON McCOARD.....	325 W. Sixth Avenue Associate Professor of Mathematics.
CHARLES WALTER MESLOH, M. A.....	University Grounds Associate Professor of Germanic Languages and Literatures.
ARTHUR WINFRED HODGMAN.....	164 W. Ninth Avenue Associate Professor of the Classic Languages.
CHARLES SMITH PROSSER, M. Sc.....	1362 Highland Street Associate Professor of Historical Geology.
JOHN ADAMS BOWNOCKER, D. Sc.....	1594 Neil Avenue Associate Professor of Inorganic Geology, and Curator of the Museum.
CLARA MAUD BERRYMAN.....	175 Eleventh Avenue Associate Professor of Physical Education.
JAMES ELLSWORTH BOYD, M. Sc.....	25 Maynard Avenue Assistant Professor of Physics.
JOSEPH RUSSELL, TAYLOR, M. A.....	222 King Avenue Assistant Professor of English Literature.
WILLIAM LUCIUS GRAVES, M. A.....	1313 Forsyth Avenue Assistant Professor of Rhetoric.
CHARLES LINCOLN ARNOLD, M. Sc.	328 W. Eighth Avenue Assistant Professor of Mathematics.
JAMES STEWART HINE, B. Sc.....	26 W. Fourth Avenue Assistant Professor of Entomology.

CHARLES A. BRUCE, B. A.....	234 Tenth Avenue
Assistant Professor of Romance Languages.	
JOHN H. SCHAFFNER, M. Sc.....	61 Eleventh Avenue
Assistant Professor of Botany.	
CHARLES BRADFIELD MORREY, B. A., M. D.....	86 King Avenue
Assistant Professor of Anatomy and Physiology.	
WILLIAM EDWARDS HENDERSON, Ph. D.....	41 Eleventh Avenue
Assistant Professor of Analytical Chemistry.	
KARL DALE SWARTZEL, M. Sc.....	57 E. Eighth Avenue
Assistant Professor of Mathematics.	
GEORGE H. MCKNIGHT, Ph. D.....	312 W. Seventh Avenue
Assistant Professor of Rhetoric and English Language.	
HERRICK CLEVELAND ALLEN, LL. B.....	275 East Gay Street
Assistant Professor of Public Speaking.	
WALLACE STEDMAN ELDEN, PH. D.....	1462 Neil Avenue
Assistant Professor of the Classic Languages.	
FRANCIS LEROY LANDACRE, B. A.....	1332 Highland Street
Assistant Professor of Zoology.	
FREDERICK EDWARD KESTER, M. A.....	1473 Neil Avenue
Instructor in Physics.	
ALONZO HUBERT TUTTLE, B. A.....	215 Tenth Avenue
Instructor in American History.	
ARTHUR ERNEST DAVIES, M. A., PH. D.....	Seventeenth Avenue
Instructor in Philosophy.	
J. WARREN SMITH.....	55 Cleveland Avenue
Lecturer on Meteorology.	
DON CARLOS HUDDLESON, G. PH.....	249 West Lane Avenue
Assistant in Gymnasium.	
FRANCIS MARION HAMILTON, B. A.....	1355 North High Street
Assistant in Philosophy and Education.	
MELVIN DRESBACH, M. SC.....	236 West Eighth Avenue
Assistant in Anatomy and Physiology.	
HERBERT CHARLES GORE, B. SC.....	185 West Ninth Avenue
Assistant in Chemistry.	
SAMUEL EUGENE RASOR, B. SC.....	1594 Neil Avenue
Assistant in Mathematics.	
EDGAR HOWARD MOORE, B. SC.....	475 West Fourth Avenue
Assistant in German.	
RICHARD T. JONES, B. PH.....	172 Seventeenth Street
Assistant in Romance Languages.	

SARAH T. BARROWS.....	85 Tenth Avenue
Assistant in German.	
WILLIAM EDWARD BOHN, M. A.....	47 West Eighth Avenue
Fellow in Rhetoric.	
HARRIET GRISWOLD BURR, B. A.....	Worthington
Fellow in Botany.	
CHARLES HUBBELL, KIMBERLY, B. Sc.....	1300 Neil Avenue
Fellow in Chemistry.	
JOHN FRANCIS TRAVIS, B. A.....	239 Tenth Avenue
Fellow in Mathematics.	
CLARENCE PHILANDER LINVILLE, B. Sc.....	61 West Eighth Avenue
Fellow in Chemistry.	
WILBUR LATIMER DUBOIS, B. Sc.....	61 West Eighth Avenue
Fellow in Chemistry.	
SELDEN F. SMYSER.....	1451 Worthington Street
Fellow in Economics.	
ELMER DARWIN BALL, M. Sc.....	1340 Hunter Street
Fellow in Zoology and Entomology.	
CHARLES BOYD SAYRE, B. A.....	716 Neil Avenue
Fellow in American History and Political Science.	
WALTER FISCHER, B. Sc.....	810 Franklin Avenue
Fellow in Botany.	
DANFORTH E. BALL.....	565 East Broad Street
Emerson McMillin Fellow in Astronomy.	
ROYAL ALBERT ABBOTT.....	1364 Forsyth Avenue
Fellow in Rhetoric.	

STANDING COMMITTEES OF THE FACULTY

Executive: Dean Barrows (*ex officio*), Secretary Clark (*ex officio*), Professors Eggers, Lord, Osborn and Thomas.

On Admission to Advanced Standing: Professor Thomas (chairman), Professors Denney and Smith.

On Admission to Graduate Work: Professor Gordy (chairman), Professors Smith and Prosser.

ADMISSION

The University is open on equal terms to both sexes.

The entrance examinations for 1901 will be held on Monday and Tuesday, June 17 and 18, and on Monday and Tuesday, September 16 and 17. A part of the examinations may be taken in June and the remainder in September. Conditions incurred at the June examinations must be removed at the September examinations.

Applicants must be at least sixteen years of age; and must be provided with credentials of scholarship from the last instructors or from the last institution with which they have been connected, and with a certificate of good moral character.

There are three modes of admission to the University:

1. Certificates of the preparatory departments of colleges of approved standing and of normal schools in Ohio are accepted, if found satisfactory, in lieu of examination for preparatory studies, under the following conditions:

Each certificate must contain a detailed statement of the studies pursued, the text-books used, the amount of work done in each study, the amount of time devoted to it, the date of the examination, and the applicant's rank or standing in it. A copy of the course of study should accompany the certificate; and both should be sent to the University not later than the first of September. The University cannot promise this recognition to those certificates presented during entrance week.

Blank certificates will be furnished upon application.

Applicants for admission who come from other colleges or universities are required to bring certificates of honorable dismissal.

Teachers' certificates (in force) will be accepted at their face value.

2. From time to time the University approves the courses of study in certain high schools of the state; and the graduates of these high schools are admitted on presentation of cards issued to them at their graduation by the University through the principals of the high schools.

3. All other applicants are subject to examination on the groups of study mentioned below under the heading of the course in the college which they desire to enter.

Full equivalents for the text-books named will be accepted.

The following are the subjects which may be presented for admission to this College of the University; the specific requirements and options under each Course are given below.

1. Arithmetic, Descriptive and Physical Geography, English Grammar and United States History.

2. *English Composition and English Classics*.—Each applicant will be tested as to his ability to write clear and correct English. The test will be the writing of several brief essays, of which one will be upon a subject drawn from the applicant's observation or experience, and the others upon topics requiring a knowledge of the following books, or equivalents: Shakespeare's *Merchant of Venice*, *Julius Caesar*, and *Macbeth*; Milton's *Lycidas*, *Comus*, *L'Allegro* and *Il Penseroso*; Burke's *Conciliation with the Colonies*; Macaulay's *Essays on Milton and Addison*; The Sir Roger de Coverly Papers in *The Spectator*; Goldsmith's *The Vicar of Wakefield*; Coleridge's *The Ancient Mariner*; Scott's *Ivanhoe*; Carlyle's *Essay on Burns*; Tennyson's *The Princess*; Lowell's *The Vision of Sir Launfal*; George Eliot's *Silas Marner*.

To meet the English requirement the schools should provide courses in composition-practice and courses in English classics extending side by side through the preparatory years.

In the courses in composition, pupils should be afforded regular and abundant practice in preparing narrative, descriptive, expository and argumentative themes, and should be familiarized with those principles of Rhetoric which are most helpful in composition, such as the principles of sentence-structure, outlining, paragraphing, and choice of words. Scott and Denney's *Composition-Rhetoric* is recommended as a guide. The study of specimens of bad English from a text-book is not recommended; in order to insure accuracy, a considerable amount of the written work of the pupils should be corrected by the teacher and revised and rewritten by the pupils themselves. Some of the composition-work may be based upon the reading prescribed above, but much of it should be based upon the observation and experience of the pupils.

In the course in English classics, pupils should read the prescribed books with sufficient care to become familiar with the plot, incidents, and characters of all of them and should also learn something of their authors and of their places in literary history. A few of these books, or portions of all of them, should be examined closely with reference to form, structure, method, language, and leading characteristics of style. The voluntary outside reading of additional books should be encouraged by the teacher. In connection with all of the reading it is recommended that the memorizing of notable passages of prose and poetry be required.

3. *Algebra*—Taylor's *Academic* or equivalent.

4. *Botany*—Kellerman's *Elementary Botany* and Spring Flora or equivalent.

5. *Civil Government*—Fiske or Thorpe preferred.

6. *Geometry, Plane and Solid*—Venable, White, Wentworth or Wells.

7. *Greek*—Grammar (Goodwin's preferred) and prose composition; or the whole of White's First Greek Book. Reading: the first three books of Xenophon's *Anabasis*. At least two years should be devoted to this work.

8. *History*—Either Myers' General History, Fisher's Short History of the Nations, or Adams' European History; or Greek and Roman History.

9. *Latin*—Pronunciation (the Roman method); Grammar (an exact knowledge of the inflections is essential); Cæsar, the first four books of the *De Bello Gallico*; Cicero, six orations, including *Pro Lege Manilia*; Vergil, the first six books of the *Aeneid*, with prosody; Prose Composition, Daniell or Collar or Jones or Dodge and Tuttle, entire.

10. *Physics*—Carhart and Chute, Gage, Avery or Appleton.

11. *French*—Applicants should be able to pronounce French accurately, to read at sight easy French prose, to put into French simple English sentences taken from the language of everyday life, or based upon a portion of the French text read, and to answer questions on the rudiments of the grammar as defined below.

Two years should be given to this preparation.

During the first year the work should comprise: (1) Careful drill in pronunciation; (2) the rudiments of grammar, including the inflection of the regular and the more common irregular verbs, the plural of nouns, the inflection of adjectives, participles and pronouns; the use of personal pronouns, common adverbs, prepositions and conjunctions; the order of words in the sentence, and the elementary rules of syntax; (3) abundant easy exercises, designed not only to fix in the memory the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (4) the reading of from 100 to 175 duodecimo pages of graduated texts, with constant practice in translating into French easy variations of the sentences read (the teacher giving the English), and in reproducing from memory sentences previously read; (5) writing French from dictation.

During the second year the work should comprise: (1) The reading of from 250 to 400 pages of easy modern (nineteenth century) prose in the form of stories, plays or historical or biographical sketches; (2) constant practice, as in the previous year, in translating into French easy variations upon the texts read; (4) writing French from dictation; (5) continued drill upon the rudiments of grammar, with constant application in the construction of sentences; (6) mastery of the forms and use of pronouns, pronominal adjectives, of all but the rare irregular verb forms, and of the simpler uses of the conditional and subjunctive.

12. *German*.—

(a) The aim of the instruction.

At the end of the elementary course in German the pupil should be able to read at sight, and to translate, if called upon, by way of proving his ability to read, a passage of very easy dialogue or narrative prose, help

being given upon unusual words and constructions; to put into German short English sentences taken from the language of everyday life or based upon the text given for translation, and to answer questions upon the rudiments of grammar as defined below.

(b) The work to be done.

During the first year the work should comprise: (1) Careful drill upon pronunciation; (2) the memorizing and frequent repetition of easy colloquial sentences; (3) drill upon the rudiments of grammar, that is, upon the inflection of the articles, of such nouns as belong to the language of everyday life, of adjectives, pronouns, weak verbs, and the more usual strong verbs, also upon the use of the more common prepositions, the simpler uses of the model auxiliaries, and the elementary rules of syntax and word-order; (4) abundant easy exercises designed not only to fix in mind the forms and principles of grammar, but also to cultivate readiness in the reproduction of natural forms of expression; (5) the reading of from 75 to 100 pages of graduated texts from a reader, with constant practice in translating into German easy variations upon sentences selected from the reading lesson (the teacher giving the English), and in the reproduction from memory of sentences previously read.

During the second year the work should comprise: (1) the reading of from 150 to 200 pages of literature in the form of easy stories and plays (2) accompanying practice, as before, in the translation into German of easy variations upon the matter read, and also in the off-hand reproduction, sometimes orally and sometimes in writing, of the substance of short and easy selected passages; (3) continued drill upon the rudiments of the grammar, directed to the ends of enabling the pupil, first, to use his knowledge with facility in the formation of sentences, and, secondly, to state his knowledge correctly in the technical language of grammar.

13. *Chemistry*—Williams or Remsen.

14. (a) *English Literature*—Pancoast's Introduction to English Literature and an acquaintance with representative works in each period; or (b) *English History*—Montgomery.

15. *Physiology*—Martin (briefer course).

ADMISSION TO SPECIAL STUDIES

Students who desire to pursue special lines of work in any of the Colleges of the University, and do not desire to become candidates for degrees, will be admitted on the following conditions:

1. The regular entrance requirements must be satisfied.

2. But applicants who are not less than twenty-one years of age after obtaining credit for the common English branches and for such other subjects as may be necessary to qualify them for the classes that they wish to enter, may, on the presentation of satisfactory reasons, be admitted to any class in the College; provided, that if any student who has been admitted

on these conditions afterwards becomes a candidate for a degree, he shall pass the omitted entrance examinations at least twelve months before the degree is conferred.

3. On entering the College, students desiring to pursue special work are required to lay before the Executive Committee, for approval or modification, a written statement of the end they have in view, the studies proposed for the attainment of that end, and the probable period of attendance. Such students will be held as strictly to their accepted schemes of work as are the regular undergraduates to their courses of study.

4. Permission to enter as special undergraduates will be refused to all who fail to give satisfactory evidence of definiteness of purpose, and will be withdrawn whenever the conditions on which it was granted cease to exist.

ADMISSION TO ADVANCED STANDING

1. Applicants who do not come from some other university or college must first obtain admission to the College in the manner already described. They will then be examined on the undergraduate studies for which they ask credits.

2. Applicants who come from the collegiate department of an approved College, and who bring explicit and official certificates describing their course of study and scholarship, and also certificates of honorable dismissal, will be admitted without examination except such as may be necessary to determine what credit they are to receive here for work done in the college from which they come.

ADMISSION TO GRADUATE WORK

Graduates of this or other institutions may, on application to the Committee on Admission to Graduate Work, enter the College and pursue such lines of work as may be arranged or approved by the Executive Committee. Such graduate students are subject to all the ordinary regulations (as to fees, attendance, etc.), prescribed for undergraduates. A circular describing the graduate work will be mailed to any applicant.

ADVANCED DEGREES

1. The degree of Master of Arts will be conferred upon candidates holding the degree of B. A. or B. Ph. from this University or from other institutions making equivalent requirements for those degrees, upon the satisfactory completion, during not less than one year of residence (devoted exclusively to such work), of an approved course of study, covering a major subject and an allied minor subject. The major subject (two thirds) shall be graduate work, taken in one of the departments of the Arts, Philosophy and Science College. The minor subject (one third) may be in graduate work.

2. The degree of Master of Science will be conferred upon candidates holding the degree of Bachelor of Science from the General Science Course of this University or from institutions making equivalent requirements for this degree, and also upon graduates from the College of Engineering of this University, upon the terms specified for the degree of Master of Arts; except that the major subject must be taken in one of the departments of Science in the Arts, Philosophy and Science College. The minor subject must be in an allied science.

3. The degree of Master of Arts will be conferred upon candidates holding the degree of Bachelor of Arts or Bachelor of Philosophy and the degree of Master of Science upon candidates holding the degree of Bachelor of Science from this University or from other institutions making equivalent requirements for these degrees, and the degree of Master of Science will be conferred on graduates from the College of Engineering of this University, on the completion, during not less than one year of residence, of a course of study in one or more of the departments of the College of Arts, Philosophy and Science, not less than one third of which course must be graduate work and not more than two-thirds may be such undergraduate work as is announced to be elective, such course to be subject to the approval of the Executive Committee of the Faculty of the College of Arts, Philosophy and Science. But a degree conferred under the provisions of this paragraph shall in no case be counted towards the degree of Doctor of Philosophy, or Doctor of Science.

4. With the consent of the Faculty the work of candidates for the Master's degree may be distributed over more than one year.

5. Each candidate for a Master's degree must also prepare and submit a thesis, and after its acceptance, be examined upon the work assigned him.

6. The degree of Doctor of Philosophy or of Doctor of Science will be conferred upon holders of the appropriate baccalaureate degree from this University, or from other institutions making equivalent requirements for the first degree, upon the satisfactory completion of three years of resident graduate work in the Arts, Philosophy and Science College, including thesis and examinations. Holders of the degree of Master of Arts or Master of Science from this University, under the conditions prescribed in paragraph one or two, or from other institutions making equivalent requirements for these degrees, may receive the Doctor's degree on the satisfactory completion of two years of resident graduate work after obtaining the Master's degree. On approval of the Faculty, the work of the first year or of the first two years, of the three, may be done at another university which offers equivalent graduate work.

7. Candidates for the degree of Doctor of Science must take their work wholly in Science.

8. With the consent of the Faculty the work required of candidates for Doctor's degree may be distributed over more than three years.

FELLOWSHIPS

To encourage graduates of this University, and of other similar and approved institutions in this State, to continue their work and to complete the courses necessary to second (and other) degrees, the University authorities have established fellowships in several departments. These demand about one-half of the time of the fellow for laboratory instruction or other similar assistance—as far as possible along the line of his graduate study. The remainder of his time is given to graduate work. The fellowships pay from \$250 to \$300 for the University year.

Following are the fellowships for the academic year 1901-1902 as far as at present determined:

Anatomy and Physiology, Botany, Chemistry (two), American History and Political Science, Mathematics (two), Philosophy, Rhetoric and English Language.

In addition to these, Mr. Emerson McMillin has established two fellowships: One in Astronomy, \$300 for the academic year, and one in Economics, \$250 for the academic year.

Correspondence should be directed to the Executive Office of the University.

PRIZES

Through the generosity of Hon. Wm. J. Bryan an annual prize of fifteen dollars is offered for the best essay on the principles underlying the form of government of the United States. Competition for this prize is open to all students of the University.

Other prizes are offered in special departments, for which see department circulars or the heads of departments.

COURSES OF STUDY

This College offers seven four-year courses of study leading to degrees. All are planned so as to lay first the foundations for investigation in the more important directions, and then, in the more advanced stages of the work, to allow much liberty of election. By the end of the second year all students must have studied two languages, at least one science, mathematics, rhetoric, English literature, history and economics; except that students in General Science omit the literature and add two sciences. Philosophy is required of all in the third year. Thus a student who had insufficient acquaintance with his own tastes and tendencies when he entered the University, and who selected an unsatisfactory curriculum, can rectify the error by transfer, with no very great loss of time.

2. Electives. Elective studies sufficient to bring the total work up to sixteen hours a week in the third year, and to fifteen hours a week in the fourth year, must be chosen from the courses in this College; except that, not earlier than the third year, studies equivalent to five hours a week for one year may be chosen from any courses taught in the University (and five hours more may be chosen by students in General Science from courses in the College of Engineering); provided that the studies are such as the student is qualified to pursue. But restrictions are imposed upon electives in the course in Commerce and Administration. See page 37.

3. Major Study. Not later than the beginning of the third year each student shall elect a major study in one department, or, with the consent of the professors in charge, in two allied departments in this College. To the major study he shall devote not less than four nor more than ten hours a week during the third year, and not less than five nor more than ten hours a week during the fourth year. With the approval of the proper authority, the major study may be entered upon in the second year; an equivalent amount of the work of that year, not in the line of the major study, being postponed to the third year; but the amount so postponed shall not exceed four hours a week: in this case the elective work of the third year will be reduced by a like amount. But see page 41 for the major study in the course in General Science.

4. Thesis. At the beginning of the fourth year each student will take up as thesis work some special line of inquiry within the field of his major study, subject to the approval of the professor in charge of the department, and must devote to it two hours per week, or its equivalent, independently

of his other work. The subject, together with a written approval of it by the head of the department within which it lies, must be submitted to the President of the University, not later than the fifteenth day of December of the fourth year. The complete thesis must be submitted not later than the second Saturday before Commencement Day. But see page 42 for thesis in General Science.

5. No one will be admitted to candidacy for a degree in this College later than the first day of October of his last year.

In the following pages the seven Courses of Study offered by this College are outlined, and each is introduced with a brief statement of its most essential features and aims and of the requirements for admission to it. The student should examine them carefully before making his selection. All members of the Faculty, but the Dean and the members of the Executive Committee most especially, are always glad to advise with the students respecting the choice of a course of study.

The figures in parenthesis following the title of a study indicate the number of that study in the Department Courses, which are fully outlined in the alphabetical order of the Departments, in the pages following these outlines.

The figure not in parenthesis indicates the number of class exercises each week, and the amount of credit assigned to each study.

THE COURSE IN ARTS

Degree: Bachelor of Arts.

From the very beginning, the University has not failed in that part of its duty which is involved in offering a *liberal* education to the youth of the State. In the course leading to the degree of Bachelor of Arts, especial emphasis is laid on the culture and discipline derived from the study of Greek, Latin, and the modern languages and literatures; together with mathematics, history, economics and science. A proper proportion among these studies is assured by the fact that the work of the first two years is mainly prescribed; options being allowed only within the limits of groups. In the third and fourth years the student is permitted a wide election; philosophy being the only study specifically prescribed. This freedom of election is not peculiar to the Course in Arts, and is mentioned only to show that the course is organized on the same broad lines that mark the work of the University in general. It is believed that the curriculum of this course approximates as nearly as is desirable to that of the "one-course" colleges, and that its baccalaureate degree is not inferior in significance to the traditions which attach to that degree elsewhere.

Requirements for Admission—Subjects 1 to 10, inclusive.

For the present, the *Greek* required for admission may be begun at the University, but without University credits.

THE COURSE IN ARTS

FIRST YEAR

FIRST TERM	Credit	SECOND TERM	Credit	THIRD TERM	Credit
Greek (7) Xenophon's <i>Hellenica</i> .	4	Greek (8) Herodotus.	4	Greek (9) Homer's <i>Odyssey</i> .	4
Latin (1) Livy or Cicero.	4	Latin (2) Terence; Plautus.	4	Latin (3) Cicero or Livy.	4
Mathematics (21) College Algebra.	3	Mathematics (22) Plane Trigonometry	3	Mathematics (23) Analytics & Calculus	3
Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3

And one of the following sciences (the choice being for the year):

Botany (21)	{ 3	Botany (22)	{ 3	Botany (23)	{ 3
Chemistry (1)		Chemistry (1)		Chemistry (1)	
Physics (11) or (2)		Physics (11) or (2)		Physics (11) or (2)	
Zoology (1)		Zoology (1)		Zoology (1)	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).	

SECOND YEAR

Greek (10) Lysias.	4	Greek (11) Plato.	4	Greek (12) Homer's <i>Iliad</i> .	4
Latin (4) Catullus, Tacitus.	4	Latin (5) Horace, Pliny.	4	Latin (6) Propertius, Tibullus.	4
American History (1a) U. S. Political, or Economics (1a) Elementary.	{ 4	American History (1a) U. S. Political, or Economics (1a) Elementary.	{ 2	Economics (1b) Elementary, or American History (1b) U. S. Political.	{ 4
English Literature (1) Introductory.		English Literature (1) Introductory.		American History (1b) U. S. Political.	
Rhetoric (2) Expository.		Rhetoric (3) Brief-making.		English Literature (1) Introductory.	
Cadet Service (Men). Hygiene and Physical Training (Women).		Cadet Service (Men). Hygiene and Physical Training (Women).		Rhetoric (3) Argumentation.	

THIRD YEAR

Philosophy (15) Psychology.	4	Philosophy (16) Logic.	4	Philosophy (17) Ethics.	4
Major Study. Electives.	4	Major Study.	4	Major Study.	4

FOURTH YEAR

Major Study. Electives. Thesis.	5 10 2	Major Study. Electives. Thesis.	5 10 2	Major Study. Electives. Thesis.	5 10 2
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For the Major Study, the Electives and the Thesis, see page 26.

THE LATIN COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy.

Latin and either French or German form a part of the regular requirements for admission to this course. In it the attempt is made to combine in the language training some of the benefits of the study of a classical language with the advantages of a knowledge of the most important modern tongues. This is its characteristic feature.

In required studies, other than those of language, in the number and range of elective subjects and in the freedom of choice among them, it differs very little from the other non-scientific courses offered in this College.

Requirements for Admission.

Subjects 1 to 6 inclusive, 8, 9, 10, and one of the following: 7, 11, or 12.

Until the year 1902, the *German* or *French* required for admission may be begun at the University, but without University credits. For the year 1902 and thereafter, the full requirements as above stated will be maintained.

THE LATIN COURSE IN PHILOSOPHY

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
French (1) Elementary, or German (1) Elementary.	4	French (1) Elementary, or German (1) Elementary.	4	French (1) Elementary, or German (1) Elementary.	4
Latin (1) Livy or Cicero.	4	Latin (2) Terence; Plautus.	4	Latin (3) Cicero or Livy.	4
Mathematics (21) College Algebra.	3	Mathematics (22) Plane Trigonometry.	3	Mathematics (23) Analytics and Calculus	3
Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3

And one of the following sciences (the choice being for the year):

Botany (21)		Botany (22)		Botany (23)	
Chemistry (1)		Chemistry (1)		Chemistry (1)	
Physics (11) or (2)	3	Physics (11) or (2)		Physics (11) or (2)	
Zoology (1)		Zoology (1)		Zoology (1)	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).	

SECOND YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
French (2) Modern Literature, or German (4) Intermediate.	4	French (2) Modern Literature or German (4) Intermediate.	4	French (2) Modern Literature or German (4) Intermediate.	4
Latin (4) Catullus, Tacitus.	4	Latin (5) Horace, Pliny.	4	Latin (6) Propertius, Tibullus.	4
American History (1 a) U. S. Political, or Economics (1 a) Elementary.	4	American History (1 a) U. S. Political, or Economics (1 a) Elementary.	2	Economics (1 b) Elementary, or American History (1 b) U. S. Political.	4
English Literature (1) Introductory.	2	English Literature (1) Introductory.	2	American History (1 b) U. S. Political.	2
Rhetoric (2) Expository.	2	Rhetoric (3) Brief-making.	2	English Literature (1) Introductory.	2
Cadet Service (Men).		Cadet Service (Men).		Rhetoric (3) Argumentation.	2
Hygiene and Physical Training (Women).		Hygiene and Physical Training (Women).		Cadet Service (Men).	
				Hygiene and Physical Training (Women).	

THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Philosophy (15) Psychology.	4	Philosophy (16) Logic.	4	Philosophy (17) Ethics.	4
Major Study.	4	Major Study.	4	Major Study.	4
Electives.	8	Electives.	8	Electives.	8

FOURTH YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Major Study.	5	Major Study.	5	Major Study.	5
Electives.	10	Electives.	10	Electives.	10
Thesis.	2	Thesis.	2	Thesis.	2

For the Major Study, the Electives and the Thesis, see page 26.

THE MODERN LANGUAGE COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy.

The Modern Language Course in Philosophy is designed to furnish students with special training in both French and German, these two languages taking the place of Greek and Latin in the Course in Arts, or of the Latin combined with one modern language in the Latin Course in Philosophy. Two full years in both of these modern languages are required and the student is given every opportunity to pursue advanced courses in the same subjects.

Requirements for Admission.

Subjects 1 to 6 inclusive, 8, 10, and either 7 and 9, or two of the following: 9, 11, 12.

Until the year 1902, either the *French* or the *German*, (but not both) required for admission may be begun at the University, but without University credits. For the year 1902, and thereafter, the full requirements as above stated will be maintained.

THE MODERN LANGUAGE COURSE IN PHILOSOPHY

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
French (1) or (2) 1st or 2nd year.	4	French (1) or (2) 1st or 2nd year.	4	French (1) or (2) 1st or 2nd year.	4
German (1) or (4) First or 2nd year.	4	German (1) or (4) 1st or 2nd year.	4	German (1) or (4) 1st or 2nd year.	4
Mathematics (21) Algebra.	3	Mathematics (22) Plane Trigonometry.	3	Mathematics (23) Analytics & Calculus, 3	
Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3

And one of the following sciences (the choice being for the year):

Botany (21)	3	Botany (22)	3	Botany (23)	3
Chemistry (1)		Chemistry (1)		Chemistry (1)	
Physics (11) or (2)		Physics (11) or (2)		Physics (11) or (2)	
Zoology (1)		Zoology (1)		Zoology (1)	
Cadet Service (Men) Hygiene and Physical Training (Women).		Cadet Service (Men). Hygiene and Physical Training (Women).		Cadet Service (Men). Hygiene and Physical Training (Women).	

SECOND YEAR

French 2nd or 3rd year.	4	French 2nd or 3rd year.	4	French 2nd or 3rd year.	4
German 2nd or 3rd year.	4	German 2nd or 3rd year.	4	German 2nd or 3rd year.	4
American History (1 a) U. S. Political, or Economics (1 a) Elementary.	4	American History (1 a) U. S. Political, or Economics (1 a) Elementary.	2	Economics (1 b) Elementary, or American History (1 b) U. S. Political.	4
Rhetoric (2) Expository Writing.	2	Rhetoric (3) Brief-making.	2	Rhetoric (3) Argumentation.	
English Literature (2) Introduction.	2	English Literature (2) Introduction.	2	English Literature (2) Introduction.	2

Cadet Service (Men). Hygiene and Physical Training (Women).		Cadet Service (Men). Hygiene and Physical Training (Women).		Cadet Service (Men). Hygiene and Physical Training (Women).	
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THIRD YEAR

Philosophy (15) Psychology.	4	Philosophy (16) Logic.	4	Philosophy (17) Ethics.	4
Major Study. Electives.	4	Major Study. Electives.	4	Major Study. Electives.	4

FOURTH YEAR

Major Study. Electives. Thesis.	5 10 2	Major Study. Electives. Thesis.	5 10 2	Major Study. Electives. Thesis.	5 10 2
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For the Major Study, the Electives and the Thesis, see page 26.

THE ENGLISH COURSE IN PHILOSOPHY

Degree: Bachelor of Philosophy.

This Course differs from the preceding three in that it lays less emphasis on the study of the foreign languages, ancient and modern, either in the preparatory school or in the University, substituting for a part of such language work studies in other lines.

From choice or necessity many persons, in their preparatory training, study but one foreign language, and they and others desire to pursue a general university course without devoting so much time as in other courses to linguistic studies. While the University authorities believe that in most cases the study of two languages other than English in preparation for college is advisable and that the further study of these and other foreign languages in the University is desirable, they also believe that for part of these, equivalent work in the English language and in other lines may without detriment be accepted. In this belief the English Course in Philosophy has been framed.

The requirements for admission, which in all other respects are the same as for the other courses in the College, permit the candidate to offer any one of the four languages—Latin, Greek, French, German—and in place of any second foreign language an equivalent amount of training in English literature or English history, chemistry, and physiology; or a second foreign language may be offered in place of the subjects just named.

In the University itself in this course the study of one modern language is required for two years. The special feature of the course is the emphasis laid on the English language, which is studied historically and critically in courses not required elsewhere in the College. Special stress is also laid on European history and on philosophy, both of which are required in greater amount than in other courses. These studies replace the second language required in the first two years of the Arts, Latin, and Modern Language Courses. At the same time full opportunity is afforded in the electives for as complete a study of additional foreign language (modern) as the student may desire.

Experience has shown that the students in this course most naturally specialize, during their last two years, in English language and literature, in philosophy, in history, in political science, or in economics. The course is well adapted for specialization in any one of these fields, and is also an excellent preparation for the professional study of law, or for the pursuit of journalism.

Requirements for Admission.

Subjects 1 to 6 inclusive, 8, 10, and either 7 and 9, or two of the following: 9, 11, 12. But in place of 11 or 12 the applicant may offer subjects 13, 14 and 15.

Until the year 1902, one modern language required for admission may be begun at the University, but without University credits. For the year 1902, and thereafter, the full requirements as stated above will be maintained.

THE ENGLISH COURSE IN PHILOSOPHY

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Mathematics (21)	3	Mathematics (22)	3	Mathematics (23)	3
Algebra.		Plane Trigonometry.		Analytics and Calculus	
Rhetoric (1) and (21)	3	Rhetoric (1) and (21)	3	Rhetoric (1) and (21)	3
Paragraph Writing;		Paragraph Writing;		Paragraph Writing;	
Oral Discourse.		Oral Discourse.		Oral Discourse.	
Rhetoric (15)	2	Rhetoric (15)	2	Rhetoric (15)	2
English Language.		English Language.		English Language.	
French (1) or (2)		French (1) or (2)		French (1) or (2)	
1st or 2nd Year,		1st or 2nd Year,		1st or 2nd Year,	
or		or		or	
German (1) or (4)		German (1) or (4)		German (1) or (4)	
1st or 2nd Year.		1st or 2nd Year.		1st or 2nd Year.	
European History (1)	3	European History (2)	3	European History (3)	3
Early Middle Ages.		Renaissance.		Modern Europe.	

And one of the following sciences (the choice being

Botany (21)		Botany (22)		Botany (23)	
Chemistry (1)		Chemistry (1)		Chemistry (1)	
Physics (11) or (2)	3	Physics (11) or (2)		Physics (11) or (3)	
Zoölogy (1)		Zoölogy (1)		Zoölogy (1)	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (Women.).		Training (Women.).		Training (Women.).	

SECOND YEAR.

Rhetoric (2)	2	Rhetoric (3)	2	Rhetoric (3)	2
Expository Writing.		Brief-Making.		Argumentation.	
Rhetoric (16)	2	Rhetoric (16)	2	Rhetoric (16)	2
Old English.		Old English.		Old English.	
English Literature (2)	2	English Literature (2)	2	English Literature (2)	2
Introduction.		Introduction.		Introduction.	
American History (1 a)		American History (1 a)		American History (1 b)	
U. S. Political,		U. S. Political,		U. S. Political.	
or		or		or	
Economics (1 a)		Economics (1 a)		Economics (1 b)	
Elementary.	4	Elementary.		Elementary,	
French		Economics (1 b)		Elementary,	
2nd or 3rd Year,		Elementary,		or	
or		or		American History (1 b)	
German		2nd or 3rd Year.		U. S. Political.	
2nd or 3rd Year.	4	2nd or 3rd Year.	4	2nd or 3rd Year.	4
Philosophy (18)	3	Philosophy (18)	3	Philosophy (19)	3
Psychology.		Psychology.		Psychology.	
Cadet Service (Men).		Cadet Service (Men).		Cadet Service (Men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (Women.).		Training (Women.).		Training (Women.).	

THIRD YEAR

Philosophy (20)	3	Philosophy (21)	3	Philosophy (22)	3
Ethics.		History of Modern Philosophy.		History of Modern Philosophy.	
Major Study.	4	Major Study.	4	Major Study.	4
Electives.	8	Electives.	8	Electives.	8

FOURTH YEAR

Major Study.	5	Major Study.	5	Major Study.	5
Electives.		Electives.		Electives.	
Thesis.	10	Thesis.	10	Thesis.	10

For the Major Study, the Electives and the Thesis see page 26.

THE COURSE IN COMMERCE AND ADMINISTRATION

Degree: Bachelor of Philosophy.

The general purpose of this course is to give the student such training as will tend to prepare him for a business career (either for private business as in commerce and trade; or for public business as in administration or an intelligent discharge of the ordinary duties and responsibilities of citizenship).

It is a specialized but not a technical course. It aims at striking a medium between what may be called purely cultural instruction on the one hand and professional instruction on the other.

The following features differentiate its work and purpose from other four year courses in this College:

(1) The studies being selected and arranged with a view to distinct lines of specialization, the principle of limited electives is introduced in the third and fourth years.

(2) Studies in law to the amount of five hours per week for one year are required in the third year.

(3) It prepares the student to undertake with greater advantage graduate work in the three departments: American History and Political Science, Economics and Sociology, and European History.

(4) It offers an academic degree for four years of prescribed work which may be recommended as a preparation for the further study of law.

Requirements for Admission.

Subjects 1 to 6 inclusive, 8, 10, and either 7 and 9, or two of the following: 9, 11, 12.

Until the year 1902, either the *French* or the *German*, (but not both) required for admission may be begun at the University, but without University credits. For the year 1902, and thereafter, the full requirements as above stated will be maintained.

THE COURSE IN COMMERCE AND ADMINISTRATION

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Mathematics (21) Algebra.	3	Mathematics (22) Plane Trigonometry.	3	Mathematics (23) Analytics and Calculus.	3
Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3
French (1) or (2) 1st or 2d Year.	4	French (1) or (2) 1st or 2d Year.	4	French (1) or (2) 1st or 2d Year.	4
German (1) or (4) 1st or 2d Year.	4	German (1) or (4) 1st or 2d Year.	4	German (1) or (4) 1st or 2d Year.	4

And one of the following sciences (the choice being for the year):

Botany (21)	3	Botany (22)	3	Botany (23)	3
Chemistry (1)		Chemistry (1)		Chemistry (1)	
Physics (11) or (2)		Physics (11) or (2)		Physics (11) or (2)	
Zoology (1)	3	Zoology (1)	3	Zoology (1)	3
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical Training (women).		Hygiene and Physical Training (women).		Hygiene and Physical Training (women).	

SECOND YEAR

Rhetoric (2)	2	Rhetoric (3)	2	Rhetoric (3)	2
Expository Writing.		Brief-making.		Argumentation.	
English Literature (2)	2	English Literature (2)	2	English Literature (2)	2
Introduction.	4	Introduction.	2	Introduction.	2
American History (1a)		American History (1a)		American History (1b)	
U. S. Political,		U. S. Political,		Elementary,	
or					
Economics (1a)		Economics (1a)		Economics (1b)	
Elementary.		Elementary.		Elementary,	
French	4	French	4	French	4
2d or 3d Year,		2d or 3d Year,		2d or 3d Year,	
or					
German		German		German	
2d or 3d Year.		2d or 3d Year.		2d or 3d Year.	
European History (1)	3	European History (2)	3	European History (3)	3
Early Middle Ages.		Renaissance.		Modern Europe.	
Cadet Service (men).		Cadet Service (men).		Cadet Service (men).	
Hygiene and Physical		Hygiene and Physical		Hygiene and Physical	
Training (women).		Training (women).		Training (women).	

THIRD YEAR

Philosophy (15)	4	Philosophy (16)	4	Philosophy (17)	4
Psychology.		Logic.		Ethics.	
*Law	5	Law	5	Law	5
Elementary.		Elementary and Contracts.		Contracts.	

Major Study.	4	Major Study.	4	Major Study.	4
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From the courses in the departments mentioned below, selection may be made to make up the required number of hours. Not less than sixteen nor more than eighteen hours a week are permitted, and no substitutions or options further than those indicated below :

American History and Political Science	2 or 3
Economics and Sociology	2 or 3
European History	2 or 3
German	2 or 3
Rhetoric	2 or 3
Romance Language	2 or 3

FOURTH YEAR

Major Study	5	Major Study	5	Major Stndy	5
(as in 3rd Year).		(as in 3rd Year).		(as in 3rd Year).	
Electives (as in	10	Electives (as in	10	Electives (as in	10
3rd Year).		3rd Year).		3rd Year).	
Thesis.	2	Thesis.	2	Thesis.	2

For the Major Study, the Electives and the Thesis, see page 26.

*In place of Elementary Law, five hours; Commercial Law five hours may be substituted. Also in place of Contracts, any two of the following may be substituted : Corporations (Private), Insurance, Agency, Sales, Mortgages.

THE COURSE IN EDUCATION.

The postulate that underlies the Course in Education is, there are two lines along which the intending teacher—with a view to his professional interests—should study: (1) the subject he teaches, and (2) the history and science of education and educational psychology. The first point will probably not be challenged by any intelligent person. No one now supposes that a teacher can teach what he does not know.

But there are still many thoughtful people who suppose that teachers are born, not made ; that if a man has the natural qualifications of a teacher he can teach, otherwise not, and that that is the end of it. The principle underlying this Course takes sharp issue with this opinion. It assumes that the intending teacher may by study acquire clearer ideas of the end of education, and of sound educational methods. It assumes that the practitioner of the art of education may, like the practitioners of the other arts, do something to put himself in a position in which he will be able to do his work from the standpoint of the experience of the best teachers of the world.

The Requirements for Admission will be the same as for any one of the five preceding courses.

THE COURSE IN EDUCATION

The studies for the first two years will be the same as for any one of the five preceding courses.

THIRD YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Philosophy (15) Psychology.	4	Philosophy (16) Logic.	4	Philosophy (17) Ethics.	4
Education (3).	4	Education (3).	4	Education (3).	4
Major Study.	4	Major Study.	4	Major Study.	4
Electives.	4	Electives.	4	Electives.	4

FOURTH YEAR

Education (5).	4	Education (5).	4	Education (5).	4
Education Electives.	2	Education Electives.	2	Education Electives.	2
Major Study.	5	Major Study.	5	Major Study.	5
Electives.	4	Electives.	4	Electives.	4
Thesis.	2	Thesis.	2	Thesis.	2

For the Major Study, the Electives and the Thesis see page 26.

THE COURSE IN GENERAL SCIENCE

Degree: Bachelor of Science.

This course is intended to meet the needs of students who wish either to become specialists in some branch of science, or to make work in science an important part of their college education.

Recognizing the correlation and mutual dependence of the leading branches of science, training in the fundamentals of botany, chemistry, mathematics, physics, physiology and zoology is required during the first two years of the course. Astronomy and geology are required during the third year. At the beginning of the third year, the student is required to choose as his major subject, "Mathematics, or a Science in which Laboratory Instruction is given." The subject so chosen is to be pursued during the third and fourth years, and the thesis required for graduation is to be taken in the major subject.

Other required subjects are: during the first and second years, modern languages and rhetoric; and during the third year, philosophy. A reading knowledge of both French and German should be possessed by each graduate.

The elective hours of the course, covering one-fourth of the third year and two-thirds of the fourth, may be used by the student either in scientific or in literary subjects.

Requirements for Admission.

Subjects 1 to 6 inclusive, 8, 10, and either 7 and 9, or two of the following: 9, 11, 12.

Until the year 1902, either the *French* or the *German*, (but not both) required for admission may be begun at the University, but without University credits. For the year 1902, and thereafter, the full requirements as above stated will be maintained.

THE COURSE IN GENERAL SCIENCE

FIRST YEAR

FIRST TERM	Credit hours	SECOND TERM	Credit hours	THIRD TERM	Credit hours
Mathematics (21) and (24)	4	Mathematics		Mathematics	
Algebra, or Trigonometry. (14)	5	Trigonometry (22) and (24) or Algebra (16) Trigonometry (15).	4 3 2	Analytics and Calculus (23) and (24) or Analytics (17).	4 5
Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3	Rhetoric (1) and (21) Paragraph Writing; Oral Discourse.	3
Botany (21) Ecology, or Zoology (1) Comparative.	3	Botany (22) Morphology and Physiology, or Zoology (1) Comparative.	3	Botany (23) Systematic, or Zoology (1) Comparative.	3
French (1) or (2) 1st or 2nd Year, or German (1) or (4) 1st or 2nd Year.	4	French (1) or (2) 1st or 2nd Year, or German (1) or (4) 1st or 2nd Year.	4	French (1) or (2), 1st or 2nd Year, or German (1) or (4) 1st or 2nd Year.	4
Chemistry (1) Elementary (Inorganic). Cadet Service (Men). Hygiene and Physical Training (Women).	3	Chemistry (1) Elementary (Inorganic). Cadet Service (Men). Hygiene and Physical Training (Women).	3	Chemistry (1) Elementary (Inorganic). Cadet Service (Men). Hygiene and Physical Training (Women).	3

SECOND YEAR					
(*) French 2d or 3d Year, or German 2d or 3d Year.	4	French 2d or 3d Year, or German 2d or 3d Year.	4	French 2d or 3d Year, or German 2d or 3d Year.	4
Physics (2) Mechanics and Heat.	3	Physics (2) Electricity and Magnetism.	3	Physics (2) Sound and Light.	3
Physiology (1) Human Anatomy and Physiology.	3	Physiology (1) Human Anatomy and Physiology.	3	Physiology (1) Human Anatomy and Physiology.	3
American History (1 a) U. S Political, or Economics (1 a) Elementary.	4	American History (1 a) U. S. Political, or Economics (1 a) Elementary.	2	Economics (1 b) Elementary, or American History (1 b) U. S. Political.	4

Cadet Service (men).	Cadet Service (men).	Cadet Service (men).
Hygiene and Physical Training (women).	Hygiene and Physical Training (women).	Hygiene and Physical Training (women).

Together with one of the following subjects, to be continued through the year : (a) Botany (24), three hours credit through the year, or (25), five hours credit through the year. (b) Chemistry (12) and (17), from three to five hours credit through the year. (c) Mathematics (18), (19) and (20), five hours credit through the year. (d) Zoology (2), from three to five hours credit through the year.

THIRD YEAR

Philosophy (18) Psychology.	3	Philosophy (18) Psychology.	3	Philosophy (19) Logic.	3
Astronomy (1) General.	2	Astronomy (1) General.	2	Astronomy (1) General.	2
(†) Major Study. Electives.	4	Major Study.	4	Major Study.	4

and one of the following :

(‡) Geology (11) Inorganic.	3	Geology (12) Historical.	3	Geology (13) Field.	3
(‡) Astronomy (2) Practical.	3	Astronomy (2) Least Squares.	3	Astronomy (2) Practical.	3

FOURTH YEAR

Major Study.	5	Major Study.	5	Major Study.	
Electives.	10	Electives.	10	Electives.	10
Thesis.	2	Thesis.	2	Thesis.	2

(*) It is desired that the student on completing this course, shall possess a good reading knowledge of both French and German. Therefore, the student entering on both French and German will take both languages in the University, each for one year. He who enters on one Modern Language will continue that language one year in case he cannot read easy prose at sight, and take the other language for one year. In case a reading knowledge of one Modern Language is possessed, the student will take the other language two years.

(†) Major Study. Not later than the beginning of the Third Year each student in this course shall elect a Major Study in Mathematics or in a Science in which Laboratory instruction is given. This Major Study shall be in one department, or with the consent of the professors in charge, in two allied departments in this college. To the Major Study the student shall devote not less than five hours nor more than ten hours a week during the Fourth Year.

(‡) Students who elect Astronomy (2) through the year must take Geology (11), (12) and (13) through the year in the Fourth Year, if not taken earlier in the course.

(‡) Students who elect Mathematics as a Major Study must take Astronomy (2) through the year: all others take Geology (11), (12) and (13) through the year.

THESIS.

As a requisite for graduation each student in this course must present an acceptable thesis embodying the results of a special research. The line of research must lie within the field of the major study, and is subject to the approval of the professor or professors having the major study in charge; and the student shall enter on this work not later than the beginning of the fourth year, and shall devote to it not less than two hours a week, or its equivalent, for one year, independently of his other work. The subject of thesis, together with a written approval of it by the professor or professors directing the investigation, must be submitted to the President of the University, not later than the fifteenth of December of the fourth year, and the completed thesis must be submitted not later than the second Saturday before Commencement Day. In case two or more students are pursuing the same major study, a joint research and thesis may be made.

COURSE PREPARATORY TO LAW AND JOURNALISM

In revising the courses of this College, the work heretofore offered as a separate discipline, in the Course Preparatory to Law and Journalism has been incorporated, as required and elective work, in the English Course in Philosophy. Much of this work is now open also to students enrolled in the other courses of this College; none of it has been abandoned or withdrawn.

Students preparing for admission to the College of Law (as candidates for a degree in law) will find suitable and sufficient preparation in the first two years of work prescribed in any one of the four-year courses of the College of Arts, Philosophy and Science.

Students preparing for Journalism will find in the English Course in Philosophy, as now revised, a more thorough preparation than the three-year special course preparatory to Law and Journalism could afford. The requirements for admission remain unchanged. Students preparing for journalism are advised to include among their elective studies as much work in English, Economics, History, Political Science and Elementary Law as their course will permit.

THE DEPARTMENTS.

1901—1902.

In the following exhibit of the courses of study offered by the departments the number of "times" a week always indicates the amount of credit that can be secured by carrying a course of study, and it generally indicates the number of separate exercises a week, whether recitations, lectures or laboratory periods. But in some cases advanced work is done in such a way as to secure the required total amount of work, rather than the specified number of exercises. For fuller information as to the work of any department write for the department circular.

AMERICAN HISTORY AND POLITICAL SCIENCE

(See History).

ANATOMY AND PHYSIOLOGY

(Biological Hall, Rooms 12 and 20).

PROFESSOR BLEILE, ASSISTANT PROFESSOR MORREV,
MR. DRESBACH, MR. BALL.

1. **Human Anatomy and Physiology.** Three times a week, three terms.
4. **Histology and Histo-Chemistry.** Five laboratory periods a week, three terms.
9. **Physiological Laboratory.** Three times a week, three terms.
11. **Physiological Laboratory.** Five times a week, three terms.
12. **Bacteriology.** Twice a week, three terms.
13. **Bacteriology.** Three times a week, three terms.

ANCIENT ART

(See Greek Language and Literature).

ASTRONOMY

(The Emerson McMillin Observatory).

PROFESSOR LORD, MR. SMITH.

1. General Astronomy. Twice a week, three terms.
2. Astronomy, Geodesy and Least Squares. Three times a week, three terms.
3. Meteorology. Twice a week, third term.
4. Advanced Astronomy. From three to five hours a week, three terms.

BOTANY

(Botanical Hall)

PROFESSOR KELLERMAN, ASSISTANT PROFESSOR SCHAFFNER,
MR. TYLER, MISS BURR, MR. FISCHER.

UNDERGRADUATE COURSES

21. Ecology. Three times a week, first term.
22. Morphology and Physiology. Three times a week, second term.
23. Systematic Botany. Three times a week, third term.
24. Laboratory and Field Work. Two or three hours, three terms.
25. Laboratory Work in Histology and Physiology. Three to five hours, three terms.
26. Advanced Laboratory Work in Histology and Microtechnique. Five times a week, three terms.
27. Laboratory and Field Work in Systematic Botany.. Three to five times a week, three terms.
28. Research Work in Systematic Botany. Five times a week, three terms.

GRADUATE COURSES

29. Research Work in Morphology and Physiology. Five or ten times a week, three terms.
30. Monographic Work. Five or ten times a week, three terms.
31. Research Work in Ecology. Five or ten times a week, three terms.

CHEMISTRY

(Chemical Hall. Rooms, 24, 25, 14, 21, 22, 7 and 18).

PROFESSOR MCPHERSON, PROFESSOR NORTON, ASSISTANT
PROFESSOR HENDERSON, MR. GORE.

1. Elementary Chemistry. Three times a week, three terms.
2. Qualitative Analysis. Three to five times a week, first and second terms.

17. **Inorganic Preparations.** Three to five times a week, third term.
20. **Quantitative Analysis.** Three to five times a week, three terms.
21. **Physical Chemistry;** Advanced General Chemistry. Twice a week, three terms.
8. **Organic Chemistry.** Five times a week, first term.
9. **Organic Chemistry.** Three to five times a week, second and third terms.
15. **Sanitary Analysis.** Four times a week, third term.
25. **Historical Chemistry.** Three times a week, third term.
26. **Chemical Seminary.** Once a week, three terms.
11. **Toxicology.** Four times a week, third term.
27. **Advanced Chemistry.** Five times a week, three terms.
28. **Organic Chemistry.** Twice a week, third term.
29. **Research Work.** Four to ten times a week, three terms.

ECONOMICS AND SOCIOLOGY

(University Hall. Rooms 17 and 18).

PROFESSOR CLARK.

UNDERGRADUATE COURSES

1. **Elements of Political Economy.** Four times a week, first term and twice a week, second term; or twice a week, second term and four times a week, third term.
2. **Industrial Society.** Twice a week, first term.
3. **Industrial and Financial History of the United States.** Twice a week, second term.
4. **Transportation Problems.** Twice a week, third term.
5. **Immigration, Money, Land.** Twice a week, first term.
6. **Railroads, Tariff Crises.** Twice a week, second term.
7. **Labor and Capital.** Twice a week, third term.
8. **Finance and Taxation.** Twice a week, first and second terms.
9. **Money, Credit and Banking.** Twice a week, third term.
10. **Commerce.** Three times a week, three terms.
11. **Sociology.** Three times a week, first and second terms.
12. **Socialism.** Three times a week, third term.
13. **Sociology and Statistics.** Once a week, three terms.
14. **Economic Literature and Legislation.** Once a week, three terms.
15. **Seminary in Economics.** Twice a week, three terms.
16. **Thesis Work.** Twice a week, three terms.

GRADUATE COURSE

17. **Advanced Economics.** From one to ten times a week, three terms.

EDUCATION

(University Hall, Rooms 51 and 54).
PROFESSOR GORDY, MR. HAMILTON.

1. Educational Psychology. Three times a week, three terms.
2. Child Study. Four times a week, three terms.
3. History of Education. Four times a week, three terms.
4. Methods of Research. Twice a week, three terms.
5. Science of Education. Four times a week, three terms.
6. Modern Educational Systems. Twice a week, three terms.
7. A Study of Scientific Method. Twice a week, three terms.
8. The Recitation. Twice a week, three terms.
9. Seminar. Twice a week, three terms.

ENGLISH LITERATURE

(University Hall, Room 31).
PROFESSOR BARROWS, ASSISTANT PROFESSOR TAYLOR.

UNDERGRADUATE COURSES

1. An Introduction to English Literature. Twice a week, three terms.
- *2. From Spenser to Milton, exclusive of the Drama. Twice a week, first term.
- *3. From Dryden to Pope, exclusive of the Drama. Twice a week, second term.
- *4. The Age of Johnson, exclusive of the Drama. Twice a week, third term.
- *5. Prose from Burke to the Victorian Age. Three times a week, first term.
- *6. Poetry from Burns to the Victorian Age. Three times a week, second and third terms.
7. The English Bible: The Pentateuch and Earlier Histories. Once a week, three terms. Given in 1901-'2.
- *8. The English Bible: Later Histories, Poets and Prophets. Once a week, three terms. Given in 1902-'3.
- *9. The English Bible: The New Testament. Once a week, three terms. Given in 1903-'4.
10. The Drama from the Beginning to the Closing of the Theatres. Three times a week, three terms.
11. The Modern Novel. Three times a week, first and second terms.
12. American Authors. Three times a week, third term.
13. Chaucer. Three times a week, first term.
14. Milton. Three times a week, second term.
15. Modern Plays. Three times a week, third term.

16. **Literary Problems.** Twice a week, three terms.
17. **Masterpieces; A Study of Literary Types.** Three times a week, three terms.
18. **Victorian Literature.** Twice a week, three terms.
19. **Current Literature.** Twice a week, three terms.

GRADUATE COURSES

20. **Translations.** Twice a week, three terms.
21. **Masterpieces: A Teachers' Course.** Five times a week, three terms.
22. **The Development of Literary Types.** Three times a week, three terms.

*Not given in 1901-'2.

ENTOMOLOGY

(See Zoology and Entomology.)

EUROPEAN HISTORY

(See History.)

GEOLOGY

(Orton Hall, Rooms 1, 4, 5, 7 and 13.)

ASSOCIATE PROFESSOR PROSSER, ASSOCIATE PROFESSOR BOWNOCKER.

11. **Inorganic Geology.** Three times a week, first term.
12. **Historical Geology.** Three times a week, second term.
13. **Field Geology.** Three times a week, third term.
14. **Paleontology.** Two to five times a week, three terms.
15. **Areal Geology.** Two to five times a week, first and third terms.
16. **Advanced Historical Geology.** Three to five hours a week, three terms.
17. **Physiography.** Twice a week, three terms.
18. **Geographic Geology.** Three times a week, third term.
19. **Economic Geology.** Three times a week, second term.
19. **Petrography.** Twice a week, three terms.

GERMANIC LANGUAGES AND LITERATURE

(University Hall, Rooms 32 and 33.)

PROFESSOR EGGERS, ASSOCIATE PROFESSOR MESLOH,
MR. MOORE, MISS BARROWS.

1. **Elementary German.** Four times a week, three terms.
2. **Science Reading.** Two or four times a week, three terms.
4. **Intermediate German.** Four times a week, three terms.

- *9. **Classical Drama and Prose.** Three times a week, three terms.
- 10. **Modern Prose and Drama.** Three times a week, three terms.
- 11. **Faust.** Twice a week, three terms.
- 12. **Colloquial Exercises.** Twice a week, first and second terms.
- 13. **Deutscher Aufsatz.** Twice a week, third term.
- *14. **Gothic.** Twice a week, first term.
- *15. **Old High German.** Three times a week, second term.
- *16. **Middle High German.** Three times a week, third term.
- 17. **Old Norse.** Twice a week, first term.
- 18. **History of Germanic Languages.** Twice a week, second term.
- 19. **Comparative Grammar.** Twice a week, third term.
- 20. **Sanskrit.** Twice a week, three terms.
- 21. **Phonetics.** Once a week, first term.
- 22. **Deutsche Kulturgeschichte.** Once a week, second and third terms.

*Omitted in 1901-'2.

GREEK LANGUAGE AND LITERATURE

(University Hall, Room 37).

PROFESSOR SMITH, ASSOCIATE PROFESSOR HODGMAN,
ASSISTANT PROFESSOR ELDEN.

- 1. **Elementary Greek.** Five times a week, three terms. (No University credit.)
- 7. **Xenophon: Hellenica.** Four times a week, first term.
- 8. **Herodotus: Book VII.** Four times a week, second term.
- 9. **Homer: Odyssey, Books I-IV.** Four times a week, third term.
- 10. **Lysias: Eight Orations.** Four times a week, first term.
- 11. **Plato: Apology and Crito.** Four times a week, second term.
- 12. **Homer: Iliad, Books I-VI.** Four times a week, third term.
- 13. **Thucydides: Book VII.** Three times a week, first term.
- 14. **Demosthenes: De Corona.** Three times a week, second term.
- 15. **Greek Lyric Poets.** Three times a week, third term.
- *16. **Attic Drama.** Twice a week, first term.
- *17. **Euripides: Alcestis and Medea.** Twice a week, second term.
- *18. **Aeschylus: Oresteia.** Twice a week, third term.
- 19. **Epic Poetry.** Three hours a week, first term.
- 20. **Greek Comedy.** Three hours a week, second term.
- 21. **Post-Classical Greek.** Three hours a week, third term.
- *22. **Ancient Art.** Twice a week, first and second term.
- *23. **Private Life of Greeks.** Twice a week, third term.

*Not offered in 1901-'2.

HISTORY

AMERICAN HISTORY

(University Hall, Rooms 27 and 18)

PROFESSOR KNIGHT, MR. TUTTLE.

UNDERGRADUATE COURSES

1. **Political History of the United States.** Four times a week first term and twice a week second term, or twice a week second term and four times a week third term.
2. **American Colonial History in the Seventeenth and Eighteenth Centuries.** Three times a week, first and second terms.
3. **Constitutional and Political History of the United States, 1776-1800.** Three times a week, third term.
- *4. **Constitutional and Political History of the United States, 1800-1829.** Three times a week, first term.
- *5. **The Political History of Slavery, 1820-1850.** Three times a week, second term.
- *6. **Secession, Civil War, Reconstruction, 1850-1876.** Three times a week, third term.
7. **Historical Material and Its Use.** Once a week, first and second terms.
8. **Topical Research in American History.** Once a week, third term.
9. **Seminary for Research Work.** Twice a week, three terms.

GRADUATE COURSE

10. **Seminary in American History and Institutions.** Two hours a week, three terms.

*Not offered in 1901-'2.

EUROPEAN HISTORY

(University Hall, Rooms 7, 17, 36)

ASSOCIATE PROFESSOR SIEBERT.

1. **Early Middle Ages.** Three times a week, first term.
2. **Renaissance.** Three times a week, second term.
3. **Modern Europe.** Three times a week, third term.
4. **Political and Constitutional History of England.** Three times a week, three terms.
5. **Political and Social History of Greece to the Roman Conquest.** Twice a week, first term.
6. **Roman History and Institutions to the End of the Republic.** Twice a week, second and third terms.
7. **The Protestant Reformation.** Three times a week, first term.
8. **The French Revolution, 1789-1815.** Three times a week, second term.

9. History of Europe since 1815. Three times a week, third term.
10. History of European Colonies. Three times a week, first and second terms.
11. The Eastern Question. Three times a week, third term.
12. History of France to Middle of Eighteenth Century. Twice a week, first term.
13. Documentary and Bibliographical Studies in European History. Twice a week, second and third terms.

ITALIAN

(See Romance Languages).

LATIN

(University Hall, Rooms 28, 29 and 39.)

PROFESSOR DERBY, ASSOCIATE PROFESSOR HODGMAN, ASSISTANT
PROFESSOR ELDEN.

1. Livy or Cicero. Four times a week, first term.
2. Terence: Phormio; Plautus: Trinummus. Four times a week, second term.
3. Cicero or Livy. Four times a week, third term.
4. Catullus, Tacitus, Horace. Four times a week, first term.
5. Horace: Odes; Pliny: Letters. Four times a week, second term.
6. Propertius and Tibullus. Four times a week, third term.
- *7. Tacitus: Historiae or Annales. Three times a week, first term.
- *8. Juvenal. Three times a week, second term.
- *9. Martial. Three times a week, third term.
- *10. Plautus. Three times a week, first term.
- *11. Cicero: De Finibus or De Officiis. Three times a week, second term.
- *12. Seneca. Three times a week, third term.
13. Lucretius. Three times a week, first term.
14. Cicero: De Natura Deorum. Three times a week, second term.
15. Horace: Satires and Epistles. Three times a week, third term.
- *16. Cicero: Rhetorical Works. Three times a week, first term.
- *17. Later Latin Writers. Three times a week, second and third terms.
18. Teachers' Course: Caesar, Cicero and Vergil. Three times a week, three terms.
19. Latin Prose Composition. Twice a week, three terms.
20. Antiquities. Twice a week, three terms.
- *21. Latin Literature. Twice a week, first and second terms.
- *22. Latin Philology. Twice a week, third term.

23. **Linguistics and Inscriptions.** Twice a week, three terms.
- *24. **Advanced Latin Writing.** Twice a week, three terms.
25. **Pro-Seminary: Plautus' Captivi.** Three times a week, three terms.
26. **Pharmaceutical Latin.** Five times a week, three terms.

*Not offered in 1901-'2.

MATHEMATICS

(University Hall, Rooms 39, 41, 43 and 45).

PROFESSOR BOHANNAN, ASSOCIATE PROFESSOR MCCOARD, ASSOCIATE PROFESSOR ARNOLD, ASSISTANT PROFESSOR SWARTZEL, MR. RASOR, MR. TRAVIS, MR. DAVIS, MR. MOORE.

14. **Plane Trigonometry.** Five times a week, first or third term.
15. **Analytical and Spherical Trigonometry.** Twice a week, second term.
16. **College Algebra.** Three times a week, second term.
17. **Plane Analytics.** Five times a week, third term.
18. **Analytics and Differential Calculus.** Five times a week, first term.
19. **Differential Calculus.** Five times a week, second term.
20. **Integral Calculus.** Five times a week, third term.
21. **College Algebra.** Three times a week, first term.
22. **Plane Trigonometry.** Three times a week, second term.
23. **Analytics and Calculus.** Three times a week, third term.
24. **Problems on All Past Work.** Once a week, three terms.
25. **Advanced Mathematics.** From one to ten times a week, three terms.

MILITARY SCIENCE AND TACTICS

(Armory).

PROFESSOR CONVERSE.

1. **Military Drill.** Three times a week, three terms.
2. **Tactics.** Twice a week, second term.
3. **Art of War.** Twice a week, second term.

PHILOSOPHY

(University Hall, Rooms 33, 49, 50 and 51).

PROFESSOR SCOTT, MR. HAMILTON, DR. DAVIES.

15. **General Psychology.** Four times a week, first term.
16. **Logic.** Four times a week, second term.
17. **Ethics.** Four times a week, third term.

18. **General Psychology.** Three times a week, first and second terms.
19. **Logic.** Three times a week, third term.
20. **Ethics.** Three times a week, first term.
21. **History of Modern Philosophy.** Three times a week, second and third terms.
22. **History of Ancient and Mediaeval Philosophy.** Three times a week, first term.
23. **Theories of Ethics.** Three times a week, second and third terms.
24. **Introduction to Philosophy.** Twice a week, first term.
25. **Theory of Knowledge.** Twice a week, second term.
26. **Metaphysics.** Twice a week, third term.
27. **Leading Works in Philosophy.** Twice a week, three terms.
28. **Physiological and Experimental Psychology.** Twice a week, three terms.

PHYSICAL EDUCATION

PROFESSOR LINHART, ASSOCIATE PROFESSOR BERRYMAN,
MR. HUDDLESON.

PHYSICS

(University Hall, Rooms 10, 14, 23 and 24.)

PROFESSOR THOMAS, ASSISTANT PROFESSOR BOYD,
MR. KESTER.

2. **Mechanics and Heat, Electricity and Magnetism, Sound and Light.** Five times a week, three terms.
3. **Problems.** Twice a week, three terms.
4. **Electricity and Magnetism.** Three times a week, first term.
11. **General Physics.** Three times a week, three terms.
12. **Laboratory.** Three to five times a week, three terms.
13. **Laboratory.** Three to five times a week, three terms. Follows 12.
14. **Theoretical Physics.** Five times a week, three terms.
15. **Laboratory.** Five times a week, three terms. Follows 13.

PHYSIOLOGY

(See Anatomy and Physiology.)

POLITICAL ECONOMY

(See Economics and Sociology.)

POLITICAL SCIENCE

(University Hall, Room 27.)

PROFESSOR KNIGHT.

11. **Political Institutions of the United States.** Three times a week, first term.
12. **Comparative Political Institutions of England and the United States.** Three times a week, second term.
12. **Comparative Political Institutions of the United States and Continental Europe.** Three times a week, third term.
14. **International Law.** Twice a week, first and second terms.
15. **History of Treaties and Modern Diplomacy.** Twice a week, third term.
- *16. **The Government of Dependencies.** Twice a week, first term.
- *17. **Colonial Institutions.** Twice a week, second term.
- *18. **Municipal Government.** Twice a week, third term.
19. **Origin, History and Interpretation of the United States Constitution.** Twice a week, three terms.
20. **Seminary in Political Science.** Twice a week, three terms.

*Not offered in 1901-2.

RHETORIC AND ENGLISH LANGUAGE

(University Hall. Rooms 38, 40, 42, 44 and 55).

PROFESSOR DENNEY, ASSISTANT PROFESSOR GRAVES, ASSISTANT
PROFESSOR MCKNIGHT, ASSISTANT PROFESSOR
ALLEN, MR. BOHN, MR. ABBOTT.

UNDERGRADUATE COURSES

1. **Paragraph Writing and Analysis of Prose.** Twice a week, three terms.
2. **Expository Writing.** Twice a week, first term.
3. **Brief Making and Written Argumentation.** Twice a week, second and third terms.
4. **Short Story Writing.** Three times a week, first term.
6. **Poetics.** Three times a week, second term.
8. **Theories of Style.** Three times a week, third term.
10. **Advanced Composition.** Once a week, three terms.
12. **Problems in Rhetoric and Criticism.** Twice a week, three terms.
13. **The Teaching of English.** Once a week, three terms.
15. **History of English and Development of Prose.** Twice a week, three terms.
16. **Old English.** Twice a week, three terms.

*17. **Beowulf and Minor Old English Poetry.** Twice a week, three terms.
18. **Middle English Prose and Poetry.** Twice a week, three terms.
21. **Essentials of Oral Discourse.** Once a week, three terms.
23. **Debates.** Twice a week, first and second terms.
24. **Extempore Speaking.** Twice a week, third term.
25. **Oratory.** Twice a week, three terms.

GRADUATE COURSE

20. **Graduate Work.** From two to ten times a week, three terms.

*Not offered in 1901-'2.

ROMANCE LANGUAGES AND LITERATURES

(University Hall, Rooms 35 and 34.)

PROFESSOR BOWEN, ASSISTANT PROFESSOR BRUCE, MR. JONES.

I. FRENCH

1. **Elementary French.** Four times a week, three terms.
2. **Modern French Literature.** Four times a week, three terms.
4. **French Comedy.** Three times a week, first term.
5. **The Dramas of Corneille.** Three times a week, second term.
6. **Seventeenth Century Prose.** Three times a week, third term.
7. **Advanced Prose Composition.** Once a week, three terms.
8. **Literary Criticism in France.** Twice a week, first term.
9. **Recent French Prose.** Twice a week, second term.
10. **Practice in Speaking and Writing French Based on Daudet's Stories.** Twice a week, third term.
*11. **French Travel Writers.** Twice a week, first term.
*12. **Eighteenth Century Prose.** Twice a week, second term.
*13. **Advanced Conversational Practice Based on Coppee and Mau-passant.** Twice a week, third term.
*14. **French Seminary A.** Three times a week, three terms.
15. **French Seminary B.** Three times a week, three terms.

*Not offered in 1901-2.

II. ITALIAN

1. **Elementary Italian.** Twice a week, three terms.

III. SPANISH

1. **Elementary Spanish.** Four times a week, three terms.
*2. **Advanced Spanish.** Twice a week, three terms.

*Not offered in 1901-'2.

SANSKRIT

(See Germanic Languages)

SOCIOLOGY

(See Economics and Sociology)

SPANISH

(See Romance Languages)

ZOOLOGY AND ENTOMOLOGY

(Biological Hall, Rooms 3, 4, 7, 8, 9 and Third Floor)

PROFESSOR OSBORN, ASSISTANT PROFESSOR HINE, ASSISTANT PROFESSOR LANDACRE.

1. **Comparative Zoology.** Three times a week, three terms.
2. **Comparative Anatomy of Vertebrates.** Three or five times a week three terms.
12. **Gross Anatomy of the Frog.** Three or five times a week, first term.
13. **Minute Anatomy of the Frog.** Three or five times a week, second term.
14. **Embryology of the Frog.** Three or five times a week, third term.
15. **Invertebrate Morphology.** I. Three or five times a week, first term.
16. **Invertebrate Morphology.** II. Three or five times a week, second term.
17. **Invertebrate Morphology III.** Three or five times a week, third term.
18. **Invertebrate Embryology.** Three or five times a week, three terms.
19. **Vertebrate Embryology: Karyokinesis, etc.** Three or five times a week, first term.
20. **Vertebrate Embryology: Chick and Mammal.** Three or five times a week, second and third terms.
21. **Comparative Neurology.** Three or five times a week, three terms.
22. **Cytology.** Three or five times a week, three terms.
23. **Entomology.** Three or five times a week, three terms.
24. **Ornithology.** Twice a week, three terms.

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